

# Washtenaw Community College Comprehensive Report

## NUR 115 Pharmacology Effective Term: Winter 2015

### Course Cover

**Division:** Math, Science and Health

**Department:** Nursing & Health Science

**Discipline:** Nursing

**Course Number:** 115

**Org Number:** 15220

**Full Course Title:** Pharmacology

**Transcript Title:** Pharmacology

**Is Consultation with other department(s) required:** No

**Publish in the Following:** College Catalog , Time Schedule , Web Page

**Reason for Submission:** Three Year Review / Assessment Report

**Change Information:**

**Consultation with all departments affected by this course is required.**

**Outcomes/Assessment**

**Rationale:** Master syllabus revision following course assessment report.

**Proposed Start Semester:** Winter 2015

**Course Description:** In this course, students learn basic principles of pharmacology and major drug classifications using a body systems approach and the nursing process.

Pharmacology builds on previous knowledge of Pathophysiology and drug dosage calculation.

General mechanisms of drug action, clinical indications for use, common adverse reactions, general nursing implications and significant drug interactions are discussed. This is a required course in the WCC Nursing Programs, but may also be taken for transfer into second career BSN programs with consent of the instructor after submission of required documentation.

### Course Credit Hours

**Variable hours:** No

**Credits:** 3

**Lecture Hours: Instructor: 45 Student: 45**

**Lab: Instructor: 0 Student: 0**

**Clinical: Instructor: 0 Student: 0**

**Total Contact Hours: Instructor: 45 Student: 45**

**Repeatable for Credit:** NO

**Grading Methods:** Letter Grades

Audit

**Are lectures, labs, or clinicals offered as separate sections?:** NO (same sections)

### College-Level Reading and Writing

College-level Reading & Writing

### College-Level Math

#### Requisites

**Prerequisite**

Admission to Registered Nursing (APNURS) or Nursing Transfer (APNURE) program;  
and

**Prerequisite**

BIO 147 minimum grade "C"

and

**Prerequisite**

BIO 212 minimum grade "C"

and

**Prerequisite**

MTH 167 minimum grade "C"

**General Education**

**Request Course Transfer**

**Proposed For:**

Eastern Michigan University

University of Michigan

**Student Learning Outcomes**

1. Recognize drug classifications and related prototypes.

**Assessment 1**

**Assessment Tool:** Assessment Technologies Institute, LLC - Pharmacology Exam

**Assessment Date:** Spring/Summer 2017

**Assessment Cycle:** Every Three Years

**Course section(s)/other population:** all sections

**Number students to be assessed:** all students enrolled (~120)

**How the assessment will be scored:** Assessment Technologies Institute (ATI) scores the standardized test and provides an item analysis to the instructor.

**Standard of success to be used for this assessment:** 75 percent of all students will achieve a score at or above Proficiency Level 2 on the ATI Pharmacology test on their first attempt.

**Who will score and analyze the data:** ATI scores the exam and the NUR 115 Course Coordinator will then analyze the data.

**Assessment 2**

**Assessment Tool:** Comprehensive Departmental Exam

**Assessment Date:** Spring/Summer 2017

**Assessment Cycle:** Every Three Years

**Course section(s)/other population:** All sections

**Number students to be assessed:** All students (~120)

**How the assessment will be scored:** Exam will be scored using the answer key (Par test/Blackboard exams).

**Standard of success to be used for this assessment:** 90% of all students who take this exam will score 78% or higher.

**Who will score and analyze the data:** NUR 115 Course Coordinator

2. Recognize the effects of each prototype on disorders and diseases in each body system.

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3. Recognize nursing implications for prototypical drugs in each classification through the application of the nursing process.

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### **Course Objectives**

1. Identify what drug classifications and related prototypes can be used to treat diseases and disorders in the following: a. infections b. cardiovascular system c. neurologic system d. digestive system e. endocrine system f. reproductive system g. respiratory system

#### **Matched Outcomes**

1. Recognize drug classifications and related prototypes.
2. Identify the pharmacological action of each prototype, specifically, the pharmacokinetics and pharmacodynamics.

#### **Matched Outcomes**

2. Recognize the effects of each prototype on disorders and diseases in each body system.
3. Identify the therapeutic effect of the prototype.

#### **Matched Outcomes**

2. Recognize the effects of each prototype on disorders and diseases in each body system.
4. Identify possible interactions between a prototype and other drugs/foods.

#### **Matched Outcomes**

2. Recognize the effects of each prototype on disorders and diseases in each body system.
5. Identify the major side/adverse effects for each major classification of drugs and specific

prototypes.

**Matched Outcomes**

- 2. Recognize the effects of each prototype on disorders and diseases in each body system.
- 6. Assessment: a. Identify therapeutic effects of prototypes. b. Identify side effects and adverse effects of prototypes. c. Identify what assessments need to be made before a prototype can be administered. d. Identify that a patient has understood drug information.

**Matched Outcomes**

- 3. Recognize nursing implications for prototypical drugs in each classification through the application of the nursing process.
- 7. Nursing diagnoses: a. Identify that a patient needs more information regarding their medications. b. Identify patients at risk of drug-drug and/or drug-food reactions and interactions. c. Identify that a patient may be at risk for drug side effects and adverse effects.

**Matched Outcomes**

- 3. Recognize nursing implications for prototypical drugs in each classification through the application of the nursing process.
- 8. Planning: Determine what information the patient or care provider needs regarding the prototype to provide safe and effective drug administration.

**Matched Outcomes**

- 3. Recognize nursing implications for prototypical drugs in each classification through the application of the nursing process.
- 9. Implementation: a. Identify the ethical, legal and regulatory frameworks of nursing as it applies to drug administration. b. Identify appropriate provider responses to side effects and adverse effects of prototypes. c. Identify appropriate interventions for a client experiencing an allergic reaction to a drug. d. Identify drugs that interact with other drugs and foods e. Calculate drug dosage correctly f. Identify the components of an individualized teaching plan related to specific medications.

**Matched Outcomes**

- 3. Recognize nursing implications for prototypical drugs in each classification through the application of the nursing process.
- 10. Evaluation: a. Identify therapeutic and adverse effects of prototypes. b. Identify that a patient or care giver needs additional information or teaching in order that drugs are administered and monitored safely.

**Matched Outcomes**

- 3. Recognize nursing implications for prototypical drugs in each classification through the application of the nursing process.

**New Resources for Course**

**Course Textbooks/Resources**

Textbooks

Adams. *Pharmacology for Nurses*, latest ed. Pearson, 2013

Manuals

Periodicals

Software

**Equipment/Facilities**

Level III classroom

Testing Center

**Reviewer**

**Action**

**Date**

**Faculty Preparer:**

*Gloria Velarde*

*Faculty Preparer*

*Jun 06, 2014*

**Department Chair/Area Director:**

*Default Washtenaw*

*Default*

*Jul 22, 2014*

**Dean:**

*Kristin Brandemuehl*

*Recommend Approval*

*Jul 24, 2014*

**Vice President for Instruction:**

*Bill Abernethy*

*Approve*

*Sep 16, 2014*